



Attorney Docket No. N00411/70000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Mohammad Abu-Orf  
Patent No.: 6,849,190 B2  
Issued: February 1, 2005  
Serial No.: 10/025,371  
Filed: December 19, 2001  
For: METHODS FOR POLYMER ADDITION CONTROL  
FOR WATER TREATMENT

Examiner: Peter A. Hruskoci  
Art Unit: 1724  
Confirmation No.: 7835

Certificate  
FEB 22 2005  
of Correction

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**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 11 day of February, 2005.

  
\_\_\_\_\_  
Jeanne W. Chub

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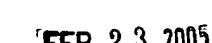
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith are the following documents:

- Request for Certificate of Correction Under 37 C.F.R. §1.322
- Certificate of Correction
- Copy of Amendment after Allowance as filed on 9/8/2004
- Copy of USPTO Communication in Response to a Rule 312 communication mailed 12/21/2004
- Return Receipt Postcard

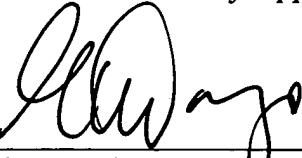
If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 395-7000.

  
FEB 23 2005

Patent No.: 6,849,190 B2  
Docket No.: N00411/70000  
Page 2 of 2

A check is not enclosed. If a fee is required, the Commissioner is hereby authorized to charge Deposit Account No. 50/0214. A duplicate of this sheet is enclosed.

Respectfully submitted,  
*Mohammad Abu-Orf, Applicant*

By: 

Elias Domingo, Reg. No. 52,827

Peter C. Lando, Reg. No. 34,654

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Date: February 11, 2005

758346.1

FEB 23 2005.



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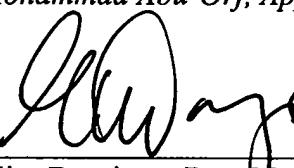
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Feb 23 2005

Patent No.: 6,849,190 B2  
Docket No.: N00411/70000  
Page 2 of 2

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*Mohammad Abu-Orf, Applicant*

By: 

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Mohammad Abu-Orf  
 Patent No.: 6,849,190 B2  
 Issued: February 1, 2005  
 Serial No.: 10/025,371  
 Filed: December 19, 2001  
 For: METHODS FOR POLYMER ADDITION CONTROL  
 FOR WATER TREATMENT  
 Examiner: Peter A. Hruskoci  
 Art Unit: 1724  
 Confirmation No.: 7835

## CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on February 11, 2005.



\_\_\_\_\_  
Jeanne W. Chub

Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

**REQUEST FOR CERTIFICATE  
OF CORRECTION UNDER 37 C.F.R. § 1.322**

Sir:

Applicant submits herewith a request for correction under 37 C.F.R. § 1.322 of the above-identified issued patent, to correct a mistake in claim 1 through no fault of the Applicant.

The mistake identified on the appended form is an error made by the United States Patent and Trademark Office. Enclosed is a highlighted copy of the Amendment after Allowance, under 37 CFR 1.312, filed September 8, 2004, showing the claim amendment that should have been made to then pending claim 26 (which issued as claim 1). Also enclosed is an Office Communication mailed on December 21, 2004 indicating that the Rule 312 communication has been considered and entered as directed to matters of form not affecting the scope of the invention.

Applicant: Mohammad Abu-Orf  
Patent No.: 6,849,190 B2  
Issued: February 1, 2005

-2-

It is respectfully requested that the correction shown on the attached sheet be made to the patent. There is no required fee as set forth under 37 C.F.R. § 1.322 since the error was not made by the Applicant.

It is requested that the undersigned be contacted by telephone at (617) 395-7019 with any questions relating to this Request.

The Commissioner is hereby authorized to charge any deficiencies or credit any over payments to Deposit Account No. 50/0214. A duplicate copy of this request is enclosed.

Respectfully submitted,



---

Elias Domingo, Reg. No. 52,827  
Peter C. Lando, Reg. No. 34,654  
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Tel.: (617) 395-7000  
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Attorney for Applicants

Attorney Docket No.: N00411/70000  
Dated: February 11, 2005

758345.1

FEB 23 2005

UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

PATENT NO.: 6,849,190 B2

DATED : February 1, 2005

INVENTOR(S): Mohammad Abu-Orf

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims:

In column 8, claim 1, lines 8-10, should read --continuously measuring an on-line viscosity of the liquid-rich stream with a sensor fluidly connected to the liquid rich stream; and--

MAILING ADDRESS OF SENDER:

PATENT NO.: 6,849,190 B2

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One Main Street  
Cambridge, MA 02142

No. of additional copies: 0

758345.1

FEB 23 2005



Attorney's Docket No.: N00411/70000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Mohammad Abu-Orf  
Serial No: 10/025,371  
Conf. No.: 7835  
Filed: December 19, 2001  
For: SYSTEMS AND METHODS FOR POLYMER ADDITION  
CONTROL FOR WATER TREATMENT  
Examiner: Peter A. Hruskoci  
Art Unit: 1724

**COPY**

**CERTIFICATE OF FACSIMILE TRANSMISSION UNDER 37 C.F.R. §1.8(a)**

The undersigned hereby certifies that this document is being transmitted via facsimile to the attention of Examiner Hruskoci, at FAX number 703-872-9306, Mail Stop AF, at the United States Patent and Trademark Office on the 8 day of September, 2004.

Jeanne W. Chub

Mail Stop AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**AMENDMENT AFTER ALLOWANCE UNDER 37 CFR §1.312(a)**

In accordance with 37 C.F.R. §1.312, Applicant respectfully requests entry of the following amendment after receipt of the Notice of Allowance and before issuance of the patent.

In response to the Notice of Allowability mailed August 17, 2004 Applicant respectfully requests reconsideration and allowance in view of the following Amendments and Remarks.

Amendments to the claims are reflected in the listing of claims, which begins on page 2 of this Response. Changes to the claims are shown by strikethrough for deleted matter and underlining for added matter.

Remarks begin on page 4.

FEB 23 2005

## AMENDMENTS

In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application and incorporates the Examiner's Amendment in an Office Communication mailed August 17, 2004.

1-22. (Cancelled)

23. (Currently amended) The method to treat wastewater of claim [20]26, wherein the step of adjusting a flowrate comprises adjusting a flowrate based on an optimization algorithm.

24. (Currently amended) The method to treat wastewater of claim [20]26, wherein the step of adjusting a flowrate comprises adjusting a flowrate based on a record of the [rheological property] on-line viscosity of the [wastewater stream]liquid-rich stream.

25. (Cancelled)

26. (Currently amended) A method to treat wastewater, comprising:  
providing a wastewater stream;  
adding a treatment agent to the wastewater stream to produce a treated stream;  
separating the treated stream into a liquid-rich stream and a solid-rich stream;  
continuously measuring an on-line viscosity of the liquid-rich stream with a sensor fluidly connected to the liquid rich stream; and  
adjusting a flowrate of the treatment agent based on the on-line viscosity.

27. (Cancelled)

28. (Original) The method to treat wastewater of claim 26, wherein the step of adding a treatment agent comprises adding a flocculating agent.

29. (Original) The method to treat wastewater of claim 26, wherein the step of adjusting a flowrate of the treatment agent occurs before the step of adding the treatment agent to the wastewater stream.

30. (Original) The method to treat wastewater of claim 26, wherein the step of separating the treated stream comprises separating the treated stream using a centrifuge.

31. (Original) The method to treat wastewater of claim 26, wherein the step of separating the treated stream comprises separating the treated stream using a filtration apparatus.

32. (Previously presented) The method of claim 26, wherein the step of adjusting a flowrate of the treatment agent comprises determining a minimum value of the on-line viscosity.

33. (Previously presented) The method of claim 26, wherein the step of adjusting a flowrate of the treatment agent comprises varying the flowrate of the treatment agent to determine a minimum value of the on-line viscosity.

**REMARKS**

Claims 1-31 were originally filed. Claims 32-33 were previously added. Claims 1-19 were previously withdrawn from consideration without prejudice or disclaimer. Claims 1-22, 25, and 27 are cancelled. Claims 23-24 and 26-33 have been allowed. Claims 23-24 and 26 are currently amended.

**Summary of Telephone Conference With The Examiner**

Applicant thanks Examiner Hruskoci for the courtesy of a telephone conference on August 30, 2004. During the telephone conference, Applicant's representative discussed a further amendment to dependent claim 24 to provide proper antecedent basis. The Examiner agreed to consider the amendment.

**Allowable Subject Matter**

Claims 23-24 and 26-33 have been allowed. Dependent claim 24, which formerly depended from cancelled claim 20, is amended to depend from independent claim 26 to provide proper antecedent basis. No new matter has been added.

Accordingly, claims 23-24 and 26-33 are allowable.

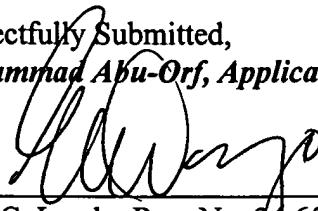
**CONCLUSION**

In view of the foregoing Amendments and Remarks, this application is in condition for allowance.

If this Response is not considered timely filed and if a request for an extension of time is otherwise absent, Applicant requests any necessary extension of time.

No fee is due. If there is any other fee occasioned by this Response, including an extension fee that is not covered by the enclosed check, please charge any deficiency to Deposit Account No. 50/0214.

Respectfully Submitted,  
*Mohammad Abu-Orf, Applicant*

By:   
Peter C. Lando, Reg. No. 34,654  
Elias Domingo, Reg. No. 52,827  
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Date: September 6, 2004



UNITED STATES PATENT AND TRADEMARK OFFICE

Reviewed by  
Docketing  
CML 12/28/04

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/025,371	12/19/2001	Mohammad Abu-Orf	N00411/70000 (PCL)	7835

37462 7590 12/21/2004

LOWRIE, LANDO & ANASTASI  
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CAMBRIDGE, MA 02142

EXAMINER
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HRUSKOCI, PETER A

ART UNIT	PAPER NUMBER
1724	

DATE MAILED: 12/21/2004

**COPY**

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Response to Rule 312 Communication</b>	Application No.	Applicant(s)
	10/025,371	ABU-ORF, MOHAMMAD
	Examiner Peter A. Hruskoci	Art Unit 1724

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --*



1.  The amendment filed on 08 September 2004 under 37 CFR 1.312 has been considered, and has been:

- a)  entered.
- b)  entered as directed to matters of form not affecting the scope of the invention.
- c)  disapproved because the amendment was filed after the payment of the issue fee.  
Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.
- d)  disapproved. See explanation below.
- e)  entered in part. See explanation below.

  
Peter A. Hruskoci  
Primary Examiner  
Art Unit: 1724